

MATERIAL NUMBER 1.2436 · CLASS 1.2

BD6

Material no. 1.2436

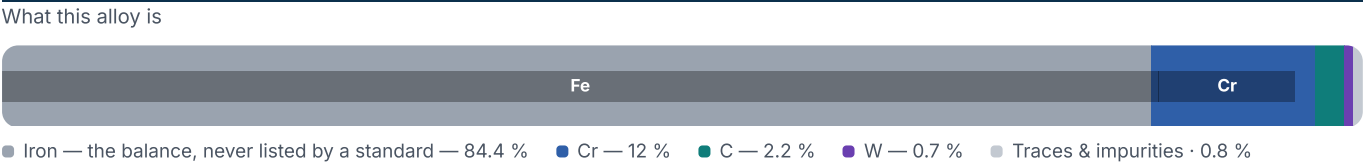
also listed as X210CrW12

Chemical composition, mechanical and physical property values, and 31 standard designations from 16 regions.

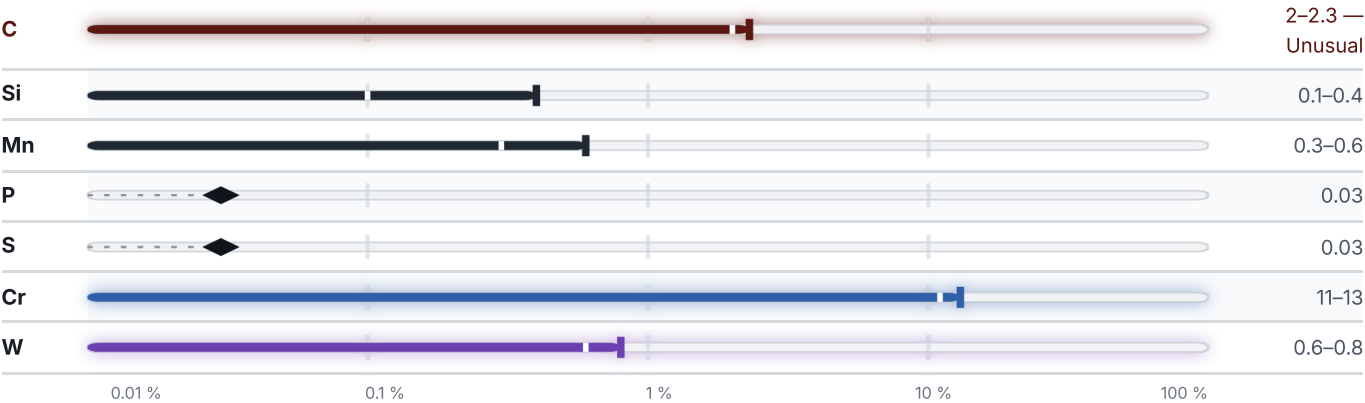
DENSITY 7.6 g/cm³	OTHER DESIGNATIONS 31 in 16 regions	PROPERTY VALUES 8 on file
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Chemical composition

Mass fraction in %



Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

Mechanical properties

5 values across 3 conditions

CONDITION · DIMENSION	HB	HRC
Annealed	255	–
Quenched and tempered	–	62
SOFT ANNEALED		HB
Soft annealed		255
CONDITION · DIMENSION	RM N/mm ²	A5 %
Sheet cold-rolled, GOST 21427.2-83	330–470	20–35

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm ³	RHO_EL nΩ·m
20	7.75	400
PROPERTY	VALUE	UNIT
Density	7.6	g/cm ³

Heat treatment

3 regimes

STEP	TEMPERATURE	MEDIUM
Quenching	Temperature not stated	—
Quenching	950–980 °C	Oil
Annealing	Temperature not stated	—

Designations across standards

31 designations · 1 documented as identical

United States4		Russia / CIS3	
T30403	uns	Ch12	gost
T30406	uns	Kh12VM	gost
D 3	aisi-sae	X12	gost
D6	aisi-sae		
France4		Italy3	
X210CrW12-1	afnor	215CrW12-1KU	uni
Z200C12	afnor	X215CrW121KU	uni
Z200CW12	afnor	X215CrW12KU	uni
Z210CW12-01	afnor		
		Europe2	
		1.2436	din-en
		X210CrW12	din-en
		This grade's own name	

Spain	2
F.5213X210CrW12	une
X210CrW12	une
International	2
X210Cr12	iso
X210CrW12	iso
Sweden	2
2312	ss
2313	ss
Poland	2
NC10	pn
NC11	pn
United Kingdom	1
BD6	bs

Japan	1
SKD2	jis
China	1
Cr12W	gb
Czechia	1
19437	csn
Slovakia	1
19 437	stn
Serbia	1
Č.4650	srps
Croatia	1
Č4650	hrn

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about BD6

Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

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ISSUED

Aug 20, 2026